

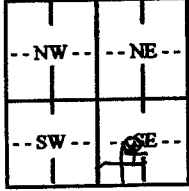
WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

MW-12

1 LOCATION OF WATER WELL: County: Comanche	Fraction SE ¼ SW ¼ NE ¼ NW ¼	Section Number 3	Township No. T 33 S	Range Number R 20 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here <input checked="" type="checkbox"/> 401 N. Broadway Avenue, Protection, KS 67127		Global Positioning System (GPS) information: Latitude: 37.2040 (in decimal degrees) Longitude: 99.4846 (in decimal degrees) Elevation: Datum: <input type="checkbox"/> WGS 84, <input type="checkbox"/> NAD 83, <input type="checkbox"/> NAD 27 Collection Method: <input type="checkbox"/> GPS unit (Make/Model: Google Earth) <input type="checkbox"/> Digital Map/Photo, <input type="checkbox"/> Topographic Map, <input type="checkbox"/> Land Survey Est. Accuracy: <input type="checkbox"/> <3 m, <input checked="" type="checkbox"/> 3-5 m, <input type="checkbox"/> 5-15 m, <input type="checkbox"/> >15 m		
2 WATER WELL OWNER: Farmers Coop RR#, Street Address, Box #: 401 N. Broadway Avenue City, State, ZIP Code : Protection, KS 67127				

3 LOCATE WELL WITH AN "X" IN SECTION BOX: N  W E S 1 mile	4 DEPTH OF COMPLETED WELL 26.0' ft. Depth(s) Groundwater Encountered (1) ft. (2) ft. (3) ft. WELL'S STATIC WATER LEVEL 17.13' ft. below land surface measured on mo/day/yr. 2/18/15 Pump test data: Well water was ft. after hours pumping gpm EST. YIELD gpm. Well water was ft. after hours pumping gpm Bore Hole Diameter 8.50" in. to 26.0' ft., and in. to ft. WELL WATER TO BE USED AS: <input type="checkbox"/> Public water supply <input type="checkbox"/> Geothermal <input type="checkbox"/> Injection well <input type="checkbox"/> Domestic <input type="checkbox"/> Feedlot <input type="checkbox"/> Oil field water supply <input type="checkbox"/> Dewatering <input type="checkbox"/> Other (Specify below) <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Domestic-lawn & garden <input checked="" type="checkbox"/> Monitoring well Was a chemical/bacteriological sample submitted to Department? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, mo/day/yr sample was submitted Water well disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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5 TYPE OF CASING USED: Steel PVC Other

CASING JOINTS: Glued Clamped Welded Threaded

Casing diameter 2" in. to 11.0' ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface Flush in., Weight lbs./ft., Wall thickness or gauge No. Sch. 40

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel PVC Other (Specify)
 Brass Galvanized Steel None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous slot Mill slot Gauze wrapped Torch cut Drilled holes None (open hole)
 Louvered shutter Key punched Wire wrapped Saw cut Other (specify)

SCREEN-PERFORATED INTERVALS: From 11.0' ft. to 26.0' ft., From ft. to ft.
 From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 9.0' ft. to 26.0' ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Concrete

Grout Intervals: From 0 ft. to 1.0' ft., From 9.0' ft. to ft., From ft. to ft.

What is the nearest source of possible contamination:
 Septic tank Lateral lines Pit privy Livestock pens Insecticide storage Other (specify below)
 Sewer lines Cesspool Sewage lagoon Fuel storage Abandoned water well
 Watertight sewer lines Seepage pit Feedyard Fertilizer storage Oil well/gas well

Direction from well Distance from well

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
		See Boring Log			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo/day/year) 01/20/2015 and this record is true to the best of my knowledge and belief.
 Kansas Water Well Contractor's License No. 606 This Water Well Record was completed on (mo/day/year) 04/01/2015
 under the business name of PSA Environmental by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of \$5.00 for each constructed well. Visit us at <http://www.kdheks.gov/waterwell/index.html>.

<input checked="" type="checkbox"/> SCS%20Aquaterra%20small%20sh...				LOG OF BORING NO.: MW-12 KDHE ID TAG: 0051139			SHEET NUMBER 1 of 2		
7311 West 130th Street, Suite 100, Overland Park, KS, 66213				DRILLING CONTRACTOR: PSA Environmental			WELL CONSTRUCTION DETAILS		
CLIENT: Farmers Coop				DRILLER: Aaron Butler			MATERIAL: PVC		
PROJECT NAME: Former Protection Coop Supply				DRILLING RIG: Geoprobe 6620 DT			DIAMETER: 2 IN		
PROJECT NUMBER: U1-017-00242				DRILLING METHOD: Direct Push			WELL TOTAL DEPTH: 26 FT BGS		
PROJECT LOCATION: 401 North Broadway, Protection, Kansas				SAMPLING METHOD: 4' Continuous Dual Tube			SCREEN LENGTH: 15 FT		
BORING LOCATION: Southeast corner of center UST basin				BORING DIAMETER: 8"			RISER LENGTH: 11 FT		
PROJECT NUMBER: 27214275.00				WELL DIAMETER: 2"			TOP OF SCREEN: 11 FT BGS		
GEOLOGIST: Adam Paris				WELL COMPLETION: Flush Mount			BOTTOM OF SCREEN: 26 FT BGS		
START DATE: 1/19/2015 FINISH DATE: 1/19/2015				SURFACE ELEVATION:			SCREEN SLOT: 0.01 IN		
START TIME: 10:15 FINISH TIME: 10:55				TOC ELEVATION:			TOP OF FILTER PACK: 9 FT BGS		
				WATER LEVEL:			TOP OF SEAL: 2 FT BGS		
				WATER ELEVATION: 0.00			TYPE OF SEAL: 3/8" Bentonite Chips		
				DATE:			TYPE OF FILTER PACK: 10/20 Silica Sand		
				SOIL DESCRIPTION AND DRILLING CONDITIONS			NOTES AND WELL CONSTRUCTION		
SAMPLER TYPE	SAMPLE DEPTH	PID (PPM)	RECOVERY	DEPTH (FEET)	USCS CLASS	C I	CONCRETE, 6"		
DT	0-4'	244	24"	1			SILT, clayey, brown to dark gray, slightly moist, stiff, trace SAND, fine grain		
				2			PETRO odor and staining		
				3					
				4					
DT	4-8'	321	26"	5			CLAY, silty, brown, moist, stiff, plastic		
				6					
				7					
				8					
DT	8-12'	343	20"	9			SILT, clayey, brown to dark gray, moist, medium stiff, trace plasticity		
				10					
				11					
				12					
DT	12-16'	429	30"	13					
				14					
				15					
				16					
DT	16-20'	834	36"	17			SILT, clayey, stained black, saturated, soft, trace plasticity		
				18					
				19					
				20					
LEGEND:							THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: ACTUAL TRANSITIONS MAY BE GRADUAL.		
SS - Split Spoon	PP - Pocket Penetrometer	HA - Hand Auger	WB - Wash Bore						
CS - 5 foot CME Sampler	HSA - Hollow Stem Augers	RB - Rock Bit	NX - Rock Core						
ST - Shelby Tube	DT - Dual Tube Sampler								

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LOG OF BORING NO.: **MW-12**
 KDHE ID TAG: 0051139

SHEET NUMBER 2 of 2

7311 West 130th Street, Suite 100, Overland Park, KS, 66213

GEOLOGIST: Adam Parris

CLIENT: Farmers Coop

DATE: 1/19/2015

PROJECT NAME: Former Protection Coop Supply

PROJECT NUMBER: U1-017-00242

SAMPLER TYPE	SAMPLE DEPTH	PID (PPM)	RECOVERY	DEPTH (FEET)	USCS CLASS	C I	SOIL DESCRIPTION AND DRILLING CONDITIONS	NOTES AND WELL CONSTRUCTION
DT	20-24'	981	48"	21			SILT, stained dark gray, saturated, trace CLAY	High petro odor and staining
				22				
				23				
				24				
				25			SAND, silty, fine grain, stained black, saturated	
				26			Boring Terminated at 26'	
				27				
				28				
				29				
				30				
				31				
				32				
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				45				

LEGEND:
 SS - Split Spoon PID - Photoionization Detector HA - Hand Auger
 CS - 5 foot CME Sampler PP - Pocket Penetrometer WB - Wash Bore
 ST - Shelby Tube HSA - Hollow Stem Augers RB - Rock Bit
 DT - Dual Tube Sampler NX - Rock Core

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: ACTUAL TRANSITIONS MAY BE GRADUAL.